



Site Inspection Report

N.J. Transit - REMF
aka Conrail Meadows Yard
Kearny, Hudson County, NJ



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) NJ Transit - REMF (Conrail Meadows Yard)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Pennsylvania Avenue			
03 CITY Kearny	04 STATE NJ	05 ZIP CODE	06 COUNTY Hudson	07 COUNTY CODE	08 CONG DIST
09 COORDINATES LATITUDE 40° 44' 39" LONGITUDE 74° 08' 45"		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 8 / 19 / 87 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION ~1880 Present BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR (Name of firm) <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR (Name of firm) <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR (Name of firm) <input type="checkbox"/> G. OTHER (Specify)			

05 CHIEF INSPECTOR Deborah Mazur	06 TITLE HSMS III	07 ORGANIZATION NJDEP	08 TELEPHONE NO. 609)984-3239
09 OTHER INSPECTORS Richard Gervasio	10 TITLE Supervisory Technician	11 ORGANIZATION NJDEP	12 TELEPHONE NO. 609)292-7696
Robert Raisch	HSMS IV	NJDEP	609)292-7696
Donna Gaffigan	HSMS IV	NJDEP	609)984-3239
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED Howard Smith	14 TITLE Contractor	15 ADDRESS NJ Transit - REMF	16 TELEPHONE NO. (201) 955-5744
Tim Doolan	Env. Engr.	Civil NJ Transit - Engineering	(201) 648-7878
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 1000	19 WEATHER CONDITIONS 85°F, Sunny
---	-------------------------------	--------------------------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT Jeff Hill	02 OF (Agency/Organization) NJDEP/DHWM Metro Enf.		03 TELEPHONE NO. (201) 669-3960	
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Deborah Mazur	05 AGENCY NJDEP	06 ORGANIZATION BPA	07 TELEPHONE NO. 609-984-3239	08 DATE 8 / 25 / 87 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

☒ A SOLID
☐ B POWDER, FINES
☐ C SLUDGE
☐ D OTHER (Specify)

☐ E SLURRY
☒ F LIQUID
☐ G GAS

02 WASTE QUANTITY AT SITE

(Measure of waste quantities must be independently)

TONS

CUBIC YARDS

Unknown

NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

☒ A TOXIC
☐ B CORROSIVE
☐ C RADIOACTIVE
☒ D PERSISTENT

☐ E SOLUBLE
☐ F INFECTIOUS
☐ G FLAMMABLE
☐ H IGNITABLE

☒ I HIGHLY VOLATILE
☐ J EXPLOSIVE
☐ K REACTIVE
☐ L INCOMPATIBLE
☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE X	Unknown		Diesel fuel contamination of
SOL	SOLVENTS			soil, groundwater, and
PSD	PESTICIDES X			surface water.
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS X			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONC. (e.g., mg/l)
MES	Cadmium		Soil #1	12	mg/l
MES	Lead		Soil #1	430	mg/l
OLW	PAH's		Soil #1	30000	ug/l
OLW	PAH's		Soil #2	10300	ug/l
MES	Cadmium		Soil #2	7-10	mg/l
OLW	PAH's		Soil #3	36300	ug/l
PSD	Aldrin		Soil #3	27	ug/l
MES	Cadmium		Soil #3	7.8	mg/l
MES	Arsenic		Soil #3	13	mg/l
MES	Lead		Soil #3	130	mg/l
OLW	PAH's		Soil #5	85000	ug/l
MES	Arsenic		Soil #5	50	mg/l
MES	Cadmium		Soil #5	9.70	mg/l
MES	Lead		Soil #5	900	mg/l
SOL	Benzene		Groundwater #1	14	ug/l
OLW	Fluorene		Groundwater #1	79	ug/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

Files at NJDEP Bureau of Planning and Assessment (BPA)
65 Prospect Street
Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

☒ A SOLID
I. B. POWDER, FINES
I. C. SLUDGE
I. D. OTHER _____
(Specify)
☐ E SLURRY
☒ F LIQUID
☐ G GAS

02 WASTE QUANTITY AT SITE

(Measure of waste quantities must be independent)

TONS _____

CUBIC YARDS Unknown

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

☒ A TOXIC
I. B. CORROSIVE
I. C. RADIOACTIVE
☒ D PERSISTENT
☐ E SOLUBLE
I. F. INFECTIOUS
I. G. FLAMMABLE
I. H. IGNITABLE
☒ I. HIGHLY VOLATILE
I. J. EXPLOSIVE
I. K. REACTIVE
I. L. INCOMPATIBLE
I. M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE X	Unknown		Diesel fuel contamination of soil, groundwater, and surface water.
SOL	SOLVENTS			
PSD	PESTICIDES X			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS X			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OLW	Phenanthrene		Groundwater #1	150	ug/l
MES	Arsenic		Groundwater #1	480	ug/l
MES	Lead		Groundwater #1	2800	ug/l
MES	Copper		Groundwater #1	3020	ug/l
SOL	Benzene		Surface Water #1	5	ug/l
OLW	Fluorene		Surface Water #1	29	ug/l
OLW	Phenanthrene		Surface Water #1	9	ug/l
OLW	Pyrene		Surface Water #1	18	ug/l
SOL	Chloroform		Surface Water #2	27	ug/l
SOL	Benzene		Surface Water #2	5	ug/l
OCC	Aroclor-1260		Surface Water #2	0.4	ug/l
OCC	Bromodichloromethane		Surface Water #2	8	ug/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Use specific references, e.g., state law, sample analysis results)

Files at NJDEP Bureau of Planning and Assessment (BPA)
65 Prospect Street
Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE: 1982) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

The water table aquifer has been observed to be significantly contaminated with diesel fuel. One estimate of the volume of diesel fuel is 500,000 gallons.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 8/87) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Diesel fuel has been observed to be flowing out of the NJPDES regulated surface water outfalls.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) 03 ☒ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Slight potential exists due to the apparent volume of diesel fuel contamination.

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists.

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 1982) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

The site has been in use as a railyard for over 100 years. Through this historic usage, significant amounts of diesel fuel contamination are now found in the soil.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists.

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) 03 ☒ POTENTIAL 04 ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Workers who must go below the ground surface to service cable lines, etc. may encounter diesel fuel at the water table line.

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) 03 ☐ POTENTIAL 04 ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

The entire site has been filled in, no potential exists.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists for water fowl to come in contact with diesel fuel at the surface water outfalls.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists since diesel fuel is present at the surface water outfalls, which may be affecting small fish observed at these outfalls.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Runoffs, Standing liquids, Leaking drums)

02 ☒ OBSERVED (DATE: 1982)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

It is estimated that up to 500,000 gallons of diesel fuel may be contaminating the groundwater.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Diesel fuel may be migrating off-site through the surface water discharges and in the groundwater.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No hazards known at this time.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No potential exists.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

It should be noted that a city water line for Bayonne transects part of the site. The conduit for this water line has been observed to be contaminated with diesel fuel.

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis reports)

Files at BPA, 65 Prospect Street, Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES NJ	0031992			7/87 Unacceptable rating
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	3
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	76 (Acres)
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER Oil water separator (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

An underground drainage system recently installed at the site is effectively draining the diesel fuel off-site through the surface water discharge points which are NJPDES regulated.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO
02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state laws, national discharge permits)

Files at BPA, 65 Prospect Street, Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE

WELL

02 STATUS

ENDANGERED

AFFECTED

MONITORED

03 DISTANCE TO SITE

COMMUNITY

A. ☐

B. ☐

A. ☐

B. ☐

C. ☐

A. _____ (mi)

NON-COMMUNITY

C. ☐

D. ☐

D. ☐

E. ☐

F. ☐

B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING

☐ B. DRINKING
(Other sources available)

COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)

☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER _____

03 DISTANCE TO NEAREST DRINKING WATER WELL _____ (mi)

04 DEPTH TO GROUNDWATER

05 DIRECTION OF GROUNDWATER FLOW

06 DEPTH TO AQUIFER
OF CONCERN

07 POTENTIAL YIELD
OF AQUIFER

08 SOLE SOURCE AQUIFER

Avg. 2-4 (ft)

S-SE

2-4 (ft)

(gpd)

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

There are no potable wells in the area.

10 RECHARGE AREA

☐ YES

COMMENTS

☒ NO

11 DISCHARGE AREA

☐ YES

COMMENTS

☐ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION,
DRINKING WATER SOURCE

☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES

☒ C. COMMERCIAL, INDUSTRIAL

☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

Passaic River

☐

~2000 feet

(mi)

Hackensack River

☐

~2000 feet

(mi)

☐

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

02 DISTANCE TO NEAREST POPULATION

ONE (1) MILE OF SITE

TWO (2) MILES OF SITE

THREE (3) MILES OF SITE

A. _____
NO. OF PERSONS

B. _____
NO. OF PERSONS

C. _____
NO. OF PERSONS

_____ (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

04 DISTANCE TO NEAREST OFF-SITE BUILDING

_____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Area is heavily industrialized, with a high volume of rail traffic.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-9} - 10^{-8} cm/sec ☐ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-6} cm/sec)
☐ B. RELATIVELY IMPERMEABLE
(10^{-4} - 10^{-6} cm/sec)
☐ C. RELATIVELY PERMEABLE
(10^{-2} - 10^{-4} cm/sec)
☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BLDROCK

____ (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

____ (ft)

05 SOIL pH

06 NET PRECIPITATION

____ (in)

07 ONE YEAR 24 HOUR RAINFALL

2.75" (in)

08 SLOPE
SITE SLOPE

____ %

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

____ %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (3 acre minimum)

ESTUARINE

OTHER

A. _____ (mi)

B. 100 feet (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS;
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 100 feet (mi)

B. 1.0 (mi)

C. N/A (mi)

D. N/A (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Geology: The site is underlain generally by 5-10 feet of fill (sand, cobbles, debris), then 3-5 feet of peat, then 5-10 feet of sand, then firm to soft varved clay with glacial till/rock at depths of 75-100 feet.

Site is a filled in wetlands area. The surface water discharge areas are tidally influenced.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Files at BPA, 65 Prospect Street, Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. SAMPLES TAKEN 8/19/87 NJDEP - Bureau of Planning and Assessment

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	1	H&M Labs, Melville, Long Is., NY	
SURFACE WATER	2	H&M Labs	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	5	H&M Labs	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Foxboro OVA	Ambient Air - ND, soil gases readings ranged from 500 - > 1000 ppm.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF NJDEP-BPA <small>(Name of Organization or individual)</small>
03 MAPS <input type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (List specific references, e.g., state files, satellite analysis, reports)

Files/Field Log BPA, 65 Prospect Street, Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. CURRENT OWNER(S)

01 NAME N.J. Transit			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY Newark			06 STATE NJ			07 ZIP CODE 07102			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER								
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE			10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE								
05 CITY			06 STATE			07 ZIP CODE			12 CITY			13 STATE			14 ZIP CODE		

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME Conrail			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE					
05 CITY			06 STATE			07 ZIP CODE		
01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE					
05 CITY			06 STATE			07 ZIP CODE		
01 NAME Pennsylvania Railroad			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE					
05 CITY			06 STATE			07 ZIP CODE		

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE					
05 CITY			06 STATE			07 ZIP CODE		
01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE					
05 CITY			06 STATE			07 ZIP CODE		
01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE					
05 CITY			06 STATE			07 ZIP CODE		

V. SOURCES OF INFORMATION (See specific references, e.g., state laws, software analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (If applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE 02 SITE NUMBER

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE 1985-86

03 AGENCY

NJ Transit removed some contaminated soil while constructing its new
Rail Equipment Maintenance Facility.

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE

03 AGENCY



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION
01 STATE 02 SITE NUMBER

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

A series of 10 decontamination wells were installed in an effort to pump up oil contaminated groundwater and run through an oil water separator. These wells were only in operation a short time and are now inactive.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, article and/or reports)

Files at BPA, 65 Prospect Street, Trenton, NJ 08618



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

A recent NJDEP - Division of Water Resources NJPDES compliance inspection (7/87) found the NJ Transit facility to be rated "unacceptable" in compliance. Starting the month of August 1987, NJ Transit will be required to submit monitoring reports of the surface water discharges and groundwater as specified in the NJPDES permit. Also, a recent inspection by NJDEP - Division of Hazardous Waste Management Enforcement inspection (7/87) found the NJ Transit facility to be in violation due to the diesel fuel runoff at the surface water discharge points. A Field NOV was issued.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

- Files at 1) BPA, 65 Prospect Street, Trenton, NJ 08618
2) NJDEP - Metro Office 201-669-3960



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director
401 East State St.
CN 028

Trenton, N.J. 08625
609 - 633 - 1408

M E M O R A N D U M

12 AUG 1987

TO: ALBERT PLEVA, ACTING SECTION CHIEF
BUREAU OF PLANNING AND ASSESSMENT

THROUGH: ROBERT KUNZE, ACTING SECTION CHIEF
BUREAU OF PLANNING AND ASSESSMENT

FROM: DEBORAH MAZUR, HSMS III
BUREAU OF PLANNING AND ASSESSMENT

SUBJECT: SAMPLING PLAN FOR N.J. TRANSIT-REMF
(AKA CONRAIL-MEADOWS YARD)
KEARNY, HUDSON COUNTY, NJ
EPA ID# NJD980770028

PROPOSED DATE OF SAMPLING: Wednesday August 19, 1987

OBJECTIVES OF SAMPLING:

To determine the presence of contamination by hazardous wastes and the potential for releases to the environment through the collection of analytical data for suspected areas identified during the pre-sampling assessment ("PSA") conducted on July 21 & August 7, 1987.

SITE CONTACT: Vilas Godbola - N.J. Transit
Environmental Engineer 201-264-7878

BACKGROUND:

The preliminary assessment completed on this site in March 1985 indicated a high potential for oily waste contamination due to over 100 years of use as a rail yard. In 1983, a two foot layer of diesel oil was found floating on the groundwater surface. In 1986, N.J. Transit began construction at the site of its Rail Equipment Maintenance Facility (REMF) involving a great deal of excavating and filling in of various parts of the site. All areas identified as being oil contaminated in the past have now been built over therefore making it impossible to determine if all of the contaminated soil was removed off-site. During the PSA, each of the NJPDES surface water discharge points was found to have varying degrees of diesel oil contamination. Eight of the ten NJPDES-permitted decontamination wells, which are inactive, were located and examined. While taking depth to water

measurements, what appeared to be diesel oil was present in the four wells examined. The depth of the oil layer could not be determined. Neither of these NJPDES regulated activities have been monitored for over one year due to construction activities, therefore these areas will be addressed to determine if any significant releases to the environment are continuing.

SAMPLING PLAN:

A total of ten samples will be collected, including one field blank, one trip blank, five soil/sediments, two surface waters, and one groundwater. Refer to the attached site map for approximate sampling locations. The site will be sampled using monies from the Multi-Site Cooperative Agreement, using lab contract X-085.

SOILS #1 TO #4:

These sediment samples will be collected at the following NJPDES surface water discharge points; DSN 001A, DSN 002, DSN 003, and DSN 005. Sample depth 2-8 inches.

SOIL #5:

Background soil. An appropriate location will be determined on the date of the sampling episode since most of the soil on-site is fill and not representative of a typical background sample for this area.

SURFACE WATERS #1 & #2:

These surface water samples will be collected at the mouth of NJPDES discharge points #002 & 003 respectively. A background surface water sample will not be collected since no viable sample location could be identified in this heavily industrialized area.

GROUNDWATER #1:

This groundwater sample will be collected from one of the clustered decontamination wells. The depth of the well is approximately 12 feet. On August 7, 1987 the depth to water was 5 feet 8 inches. The diameter of the well casing is 12 inches. The amount of water in the casing was calculated to be 37.02 gallons. A centrifugal pump will be used to evacuate three times the water volume (111 gallons). Note that a viable upgradient well is unavailable in this heavily industrialized area.

QA/QC:

A trip blank will be carried through the sampling episode. The field blank will be transferred to lab cleaned bottles by passing over lab cleaned sampling equipment. Sampling will be conducted in accordance with NJDEP Standard Operating Procedures.

LABORATORY & ANALYSIS:

H2M has been contracted to do the Priority Pollutant plus forty analyses. Total cost of analysis will be \$11,565.

SAFETY PROCEDURES:

Both a PID and OVA will be used to evaluate ambient air conditions before and during sampling. Level D protective gear is recommended based upon the findings of the PSA for the sediment and surface water samples. Level C is recommended for the groundwater sample. A map indicating the route to the nearest hospital is attached.

*** SPECIAL CAUTION:**

The NJPDES surface water discharges are located along the west bound rail tracks, which are "live" tracks. A flagman has been requested of N.J. Transit to be present during the sampling episode to alert sampling personnel of on-coming trains.

SAMPLING & HANDLING:

Collected samples will be stored at 4°C in coolers supplied by the lab. Samples will be delivered to H2M Laboratories via Federal Express on the same day as the sampling episode. H2M Fed. Ex No. 1049-91-491.

HS143:mz
attachment

NOT TO SCALE

NJ Transit - REMF
(aka Conrail-meadows yard)
Kearny, Hudson Co., NJ

8/87 DMazur
NJDEP - BPA

